

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 07/22/2003 10/624,957 Gunter Ruhle WTAL.107673 1062 5251 7590 11/16/2004 EXAMINER SHOOK, HARDY & BACON LLP LE, DAVID D 2555 GRAND BLVD ART UNIT PAPER NUMBER KANSAS CITY,, MO 64108 3681

DATE MAILED: 11/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant	(s)
Office Action Summary		10/624,957	RUHLE ET	
		Examiner	Art Unit	
		David D. Le	3681	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
1)⊠	Responsive to communication(s) filed on 22 J	luly 2003.		
	This action is FINAL. 2b)⊠ This action is non-final.			
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims				
4)⊠ 5)□ 6)⊠	4) ☐ Claim(s) 1-12 (original 23-34) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12 is/are rejected. 7) ☐ Claim(s) is/are objected to.			
Applicat	ion Papers			
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 12 October 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority (under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 07/22/03. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Other:				

DETAILED ACTION

This is the first Office action on the merits of Application No. 10/624,957, filed on 22
 July 2003. Claims 23-34 are pending.

Documents

- 2. The following documents have been received and filed as part of the patent application:
 - Information Disclosure Statement, received on 07/22/03
 - Drawings, received on 10/12/04

Drawings

3. The drawings were received on 12 October 2004. These drawings are approved.

Specification

4. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

Application/Control Number: 10/624,957 Page 3

Art Unit: 3681

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

5. The abstract of the disclosure is objected to because it contains legal phraseology "means". Correction is required. See MPEP § 608.01(b).

6. The disclosure is objected to because of the following informalities:

Lines 1-2 of Paragraph [0001] the U.S. Patent Application No. 09/737,898 filed
 on December 15, 2000 is now U.S. Patent No. 6,604,438.

Appropriate correction is required.

Claim Objections

7. The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Misnumbered claims 23-34 been renumbered 1-12.

Double Patenting

8. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and

Art Unit: 3681

useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

- 9. Newly renumbered claims 1, 2, 6, 8, 9, and 12 are rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1-6 of prior U.S. Patent No. 6,604,438. This is a double patenting rejection.
- The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground

Art Unit: 3681

provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 11. Newly renumbered claims 3 and 7 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 6,604,438. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are the obvious variants of the patented invention.
- 12. Newly renumbered claims 4-5 and 10-11 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 2 and 5 of U.S. Patent No. 6,604,438 to Ruhle et al. in view of U.S. Patent No. 3,834,499 to Candellero et al.

Claims 4-5 and 10-11:

Patented claims 2 and 5 disclose all limitations as recited in the independent claims 2 and 9 of the instant application. Regarding the additional features recited in claims 4-5 and 10-11, which are dependent upon claims 2 and 9, respectively, Candellero (Fig. 1; column 1, line 46 – column 9, line 14) teaches an electronic gear synchronization system comprising:

• A step transmission (18) which is connected to the output side of the friction clutch (14) and comprises a first plurality of wheel sets (24 and 34; 26 and 36;

Application/Control Number: 10/624,957

Art Unit: 3681

Page 6

28 and 38; 30 and 40; 32 and 42) for engaging and disengaging corresponding forward gears and a corresponding plurality of positive gear shift clutches (44, 46, 48), the gear shift clutches each having synchronization means (column 7, line 59 – column 8, line 15) and being actuatable by a second plurality of second actuators (column 2, lines 46-50; being an actuator unit 50) for engaging and disengaging the gears, wherein each of the synchronization means are suitable for synchronization under partial load (column 8, lines 3-15), and

- Wherein the gear shift clutch has asymmetrically tipped teeth on a sliding sleeve actuatable by the actuator (see Fig. 1); and
- Wherein the gear shift clutch comprises gear teeth not having a back cutting on the sliding sleeve actuable by the actuator (see Fig. 1).

It would have been obvious to provide the patented claims 2 and 5 with the gear shift clutch having asymmetrically tipped teeth without a back cutting on the sliding sleeve, in view of Candellero, in order to reduces the required synchronization time.

Conclusion

- 13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Frost (U. S. Patent No. 4,732,247) teaches a triple cone synchronizer having cone angle between 18-28 degrees, as shown in Figs. 1-6.

Application/Control Number: 10/624,957

Art Unit: 3681

Page 7

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David D. Le whose telephone number is 703-305-3690. The examiner can normally be reached on Mon-Fri (0700-1530).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A Marmor can be reached on 703-308-0830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ddl

CHARLES A. MARMOR
PET VALLE SAMINE

TOT VALLE SA